

Technical Data Sheet

OA 9352LN & LN2

Application

OA 9352LN & LN2 are UV curable adhesive, low refractive index materials designed for joining optical paths and fixing in devices.


Features

- UV curable type
- Low Viscosity
- Good adhesion to quartz glass, silicon wafer, and metals
- Low Refractive Index
- Excellent humidity-resistance

Properties

Properties	OA 9352LN	OA 9352LN2
Main Components	Acrylate	Acrylate
Appearance	Cloudy	Cloudy
Viscosity (@25°C)	400cPs	1,300cPs
Shear Strength (by BK-7) ^{a)}	200 kgf / cm ²	200 kgf / cm ²
Hardness (Durometer)	60 D	60 D
Shrinkage	8 %	8%
Glass Transition Temperature (Tg)	75 °C	70 °C
CTE (by TMA)	Below (Tg) 18 X 10 ⁻⁵ m / m / °C Above (Tg) 25 X 10 ⁻⁵ m / m / °C	Below (Tg) 21X10 ⁻⁵ m / m / °C Above (Tg) 27X10 ⁻⁵ m / m / °C
Outgassing to 150 °C	0.2 %	0.2 %
Degradation Temperature (Td)	260 °C	260 °C
Refractive Index (liquid, @ 25°C)	1.393	1.385
Transmittance (@1.1~1.6 μm)	90 %	90 %
Shelf Life (@-4°C)	6 Months	6 Months
Pressure Cooker Test ^{b)}	10 Hrs. (passed)	10 Hrs. (passed)

 a) Dimension = 25 mm X 5 mm

 b) Test Condition = 121°C, 2.0 atm, 100 % R.H.

The information contained herein is believed to be reliable but is not to be taken as a representation, warranty or guarantee. Customers are urged to perform their own process and QC tests.

The term of validity: 2014.03.21~2016.03.21
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Curing Condition

Process	Condition
UV-Cure Post-Cure	2.4 J/cm ² 85°C for 1 hr (60 °C for 6 hrs. recommended)

- ⚠ Please do not use metal halide lamp (mercury indium or mercury gallium). It is probable that poor curing and yellowing conditions will occur.
- ⚠ Caution: if UV curing through borosilicate glass, increased curing time should be considered to achieve adequate curing.

Storage

EFIRON® OA 9352LN & LN2 will polymerize prematurely under improper storage conditions. Store these materials away from direct sunlight and presence of oxidizing agents and free radicals. Storage temperatures should be below 25 °C.

- ⚠ Please allow sufficient time for the container to reach room temperature before opening.

Precaution

EFIRON® OA 9352LN & LN2 will cause skin and eye irritations. Avoid direct skin and eye contact. If contact does occur, wash area immediately with soap and water.

Please refer to the MSDS information regarding this product.